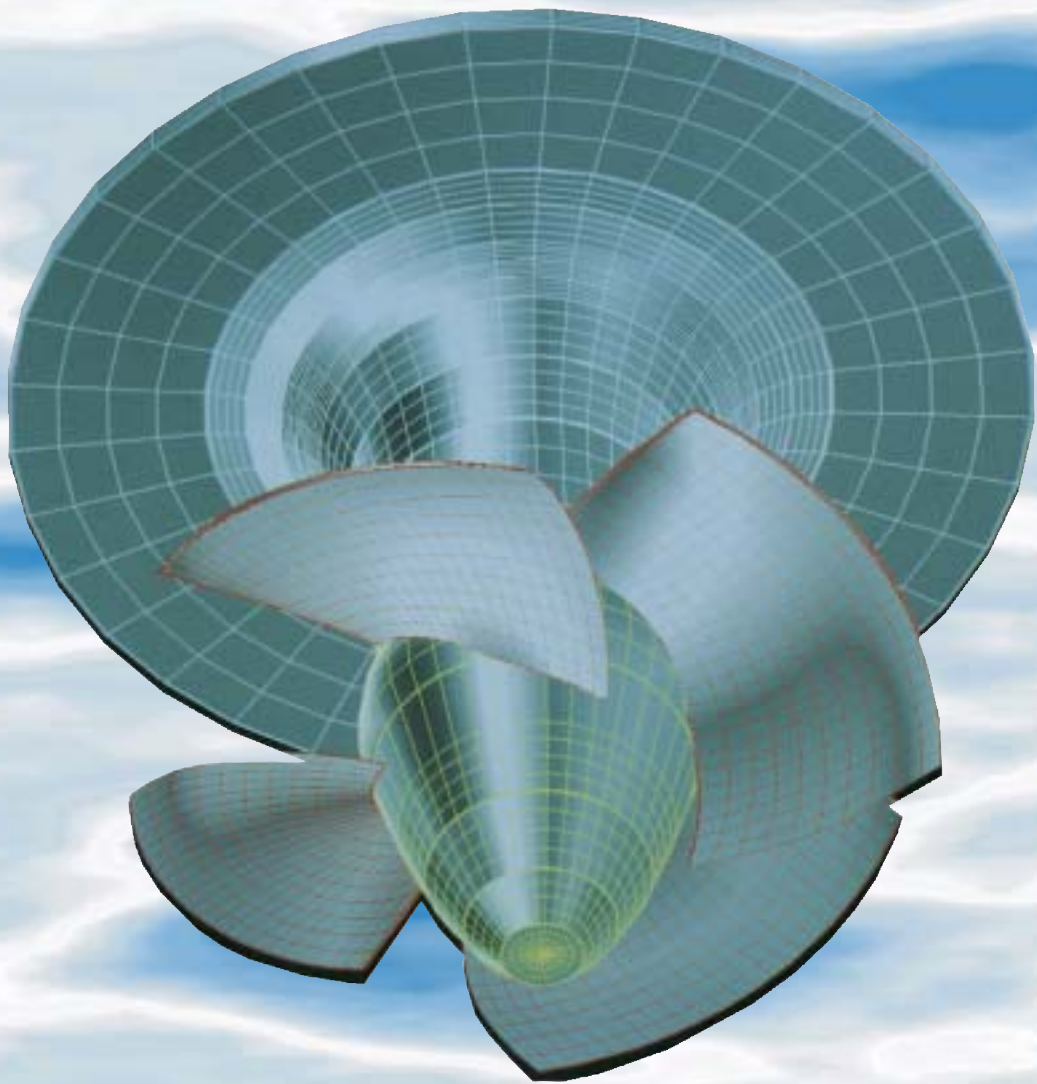


COMPACT KAPLAN



A Compact Turbine System for low head applications

Head up to 12 m
Output up to 5 MW

COMPACT KAPLAN

The range of Compact Kaplan turbines has been developed for discriminating users of small hydro.

The features of the Compact Kaplan turbines ensure a wide application according to specific needs.

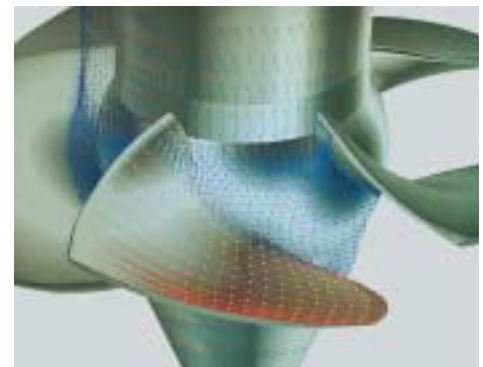
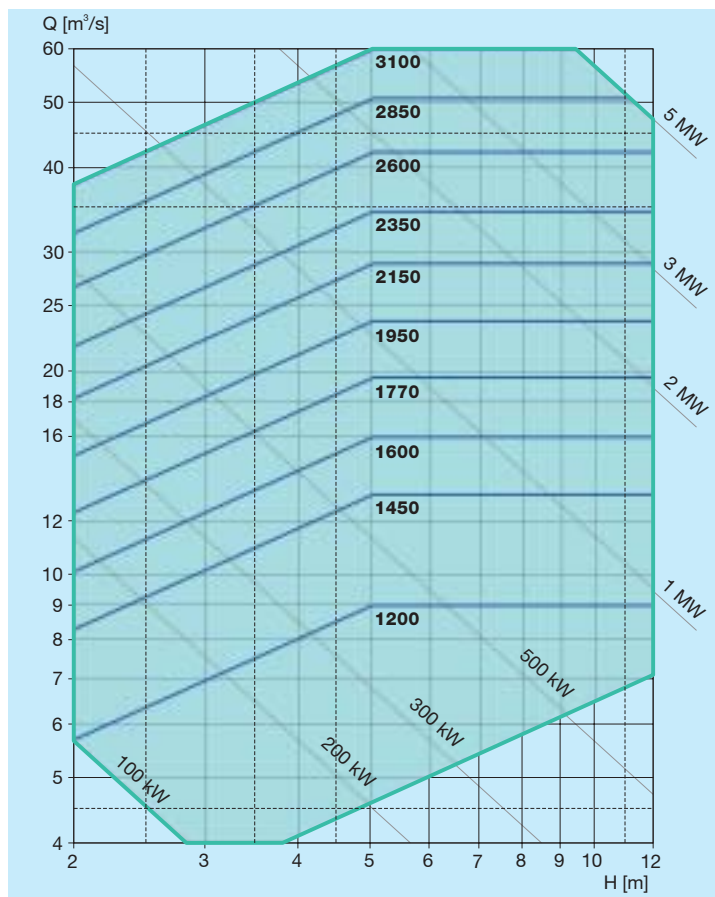
For optimal utilization of an available water resource, double-regulated Compact Kaplan Turbines have a flat efficiency curve resulting in a high output also at part-load. Under more constant flow conditions, the Semi-Kaplan turbine with fixed gate mechanism is a cost-effective alternative.

All guarantees concerning efficiency, output and resistance to cavitation are backed up by model tests in the VA TECH HYDRO laboratories.

Particularly in rehabilitation projects, Compact Kaplan offers an ideal alternative for replacing old machines.

Rehabilitation times are short since the unit is delivered as a complete aggregate which can be installed in a single embedding phase. The water-lubricated shaft bearing completely eliminates the risk of water pollution, thus combining advanced technology with stringent environmental protection.

Application range



Computer-generated drawing of a Compact Kaplan turbine runner

Technical Data

- Head H up to 12 m
- Flow Q up to 60 m^3/s
- Output P up to 5 MW
- 10 Sizes
- D_1 from 1,450 up to 3,100 mm

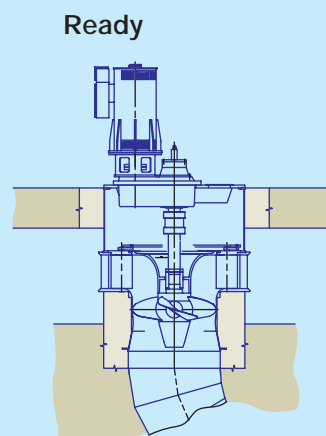
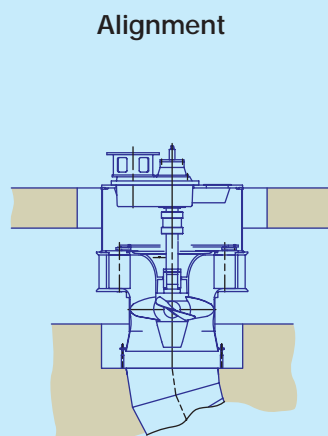
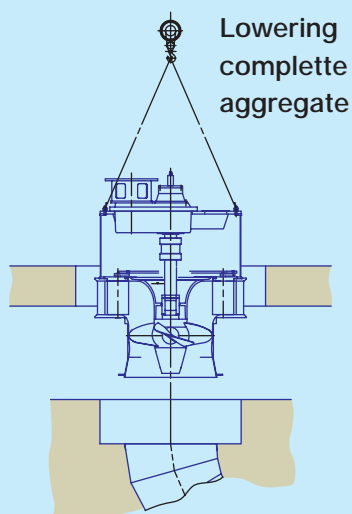
System features

- Aggregate concept:
Completely assembled turbine-generator unit with or without gearing system ready for immediate installation
- Double-regulated turbine for maximum efficiencies
- Option of a Semi-Kaplan version with fixed gate mechanism
- Water-lubricated shaft bearing for optimal environmental protection
- Simplified interface with powerhouse structure reduces overall costs.
- Single-source engineering minimizes interfaces.
Well proven turnkey solutions with optimally matched components for maximum customer benefit



Compact Kaplan Turbine

Erection procedure





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